

Abstract

The invention relates to semipermeable membranes comprising organically modified silicic-acid polycondensates, to a process for preparing them and to their use in gas exchange and in separation techniques, especially in gas separation, dialysis, pervaporation, and other filtration. The membranes of the invention can be flat or tubular and can be manufactured by conventional methods from viscous liquids obtained by hydrolytic polycondensation of organically modified, hydrolyzable silicon compounds containing C=C double bonds. The membranes are cured by addition polymerization and/or polyaddition of the C=C double bonds.

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